ELECTRICAL SYMBOL LIST

0	FLUORESCENT LIGHTING FIXTURE - CEILING MOUNTED
	LIGHTING FIXTURE WITH SELF-CONTAINED BATTERY PACK - CEILING MOUNTED
ţ.	EMERGENCY LIGHTING (BATTERY PACK) UNIT WALL, MOUNTED @ 7'6" AFF.
Ĭ	STRIP FLUORESCENT LIGHTING FIXTURE -CEILING MOUNTED
0	DOWN LIGHT - CEILING MOUNTED
Ю	WALL MOUNTED LIGHTING FIXTURE - WALL MOUNTED @ 7'-0" AFF.
Ю	WALL MOUNTED LINEAR LIGHTING FIXTURE - WALL MOUNTED @ 7'-0" AFF.
4	REMOTE EMERGENCY LIGHTING FIXTURE
⊗ ŀ	RED LED EXIT SIGN, FACES AND ARROWS AS INDICATED ON THE DWGS.
>	LIGHTING FIXTURE TYPE
n	SINGLE DOLE LIGHTING SWITCH 120/277V 20A WALL MOLINTED AT 48" AFF

SINGEL FOR EIGHTING SWITCH, IZOZZIIV; ZOZ, WAELINGONIED AT 40 ALT.
THREE-WAY SWITCH, 120/277V, 20A, WALL MOUNTED AT 48" AFF.
30-MINUTE TIMER SWITCH
DIMMER SWITCH, 1000W U.O.N. ON DRAWING, WALL MOUNTED @ 48" AFF.
CEILING MOUNTED OCCUPANCY SENSOR

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OCCUF	DUAL B MOUNT	РНОТО
OCCUPANCY SENSOR WITH MANUAL OVERRIDE SWITCH. WALL MOUNTED @ 48" AFF.	DUAL BUTTON OCCUPANCY SENSOR FOR CONTROL OF 3-LAMP FIXTURES, WALL MOUNTED AT 48" AFF, SIMILAR TO LEVITON ODSOD.	PHOTOCELL/DAYTIME SENSOR

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ANG DOUBLE SWITCH, 120/277V, 20A, WALL MOUNTED AT 48" AFF. PROVIDE EXTRA LAST FOR EACH FIXTURE IN EVERY ROOM WITH THIS TYPE OF SWITCH. 1 FOR THE IER LAMP(S) AND ANOTHER FOR THE OUTER LAMPS FOR MULTIPLE-LEVEL SWITCHING. PLEX RECEPTACLE OUTLET - 18" AFF U.O.N., 120V, 20A, SPECIFICATION GRADE	DUPLEX RECEPTAC	2-GANG DOUBLE S\ BALLAST FOR EACH INNER LAMP(S) AND	
	DUPLEX RECEPTACLE OUTLET - 18" AFF U.O.N., 120V, 20A, SPECIFICATION GRADE	2-GANG DOUBLE SWITCH, 120/277V, 20A, WALL MOUNTED AT 48" AFF. PROVIDE EXTRA BALLAST FOR EACH FIXTURE IN EVERY ROOM WITH THIS TYPE OF SWITCH. 1 FOR THE INNER LAMP(S) AND ANOTHER FOR THE OUTER LAMPS FOR MULTIPLE-LEVEL SWITCHING.	

GROUND FAULT INTERRUPTING RECEPTACLE OUTLET - 120V, 20A, SPECIFICATION GRADE WALL MOUNTED ABOVE SINK OR BACKSPLASH - COORDINATE W/ ARCH.

ADRUPLEX RECEPTACLE OUTLET - 18" AFF U.O.N., 120V, 20A SPECIFICATION GRADE.

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	I FEET LONG COLECT CHACLE WOULD FEET TO ALL TO ALL THE COLORS	
	OUTLET TO NEAREST ACCESSIBLE CEILING SPACE, WITH PULL WIRE. FACE PLATE WILL BE	
	PROVIDED BY OTHERS.	
	W - INDICATES WALL TELEPHONE MOUNTED 54" AFF.	
Z	TEL/DATA OUTLET SINGLE GANG BOX - WALL MOUNTED @ 18" AFF. PROVIDE 1"C FROM	
	OUTLET TO NEABERT ACCESSIBLE CELLING SDACE WITH DILL WIDE FACE DLATE WILL BE	

FACEPLATE WITH TYPE "F" CONNECTORS. RUN 1-RG 6U COAXIAL CABLE FROM EACH	OUTLET TO ABOVE ACCESSIBLE CEILING, WITH PULL WIRE. AT EACH LOCATION, INSTAL	CABLE TELEVISION OUTLET - WALL MOUNTED @ 18" AFF UON, PROVIDE 1-1/4"C FROM	PROVIDED BY OTHERS.

EMERGENCY LIGHT WITH BATTERY PACK	T m	
OUTDOOR WALL MOUNTED FIXTURE WITH REMOTE EMERGENCY BACK-UP BALLAST	O B	
INCANDESCENT INFRARED HEAT LAMP W/WHITE FROSTED LAMP	z	
UNDERCABINET FLUORESCENT LIGHT	M	
SAME AS "LI" FIXTURE WITH BACKLIGHT SHIELD	L2 s	
OUTDOOR LED LIGHTING FIXTURE, TYPE III LIGHT DISTRIBUTION	L1 0	
LUORESCENT DOWNLIGHT, 6" OPEN REFLECTOR	Т	
OUTDOOR WALL MOUNTED FIXTURE		CIRCUIT HOME RUN PANELBOARD AND CIRCUIT NUMBER IDENTIFICATION. GROUND
RECESSED PERIMETER SYSTEM, PARABOLIC LOUVER, INTERNAL REFLECTOR	T N N	/ - INDICATES GROUNDING WIRE TO GROUNDING BUS @ THE PANELBOARD
CANOPY RECESSED FLUORESCENT 8" DIAMETER DOWNLIGHT, CLEAR POLYCARBONATE LENS, EMERGENCY BATTERY BACK-UP BALLAST. FURNISH WITH COLD WEATHER BALLAST.	G FPC	HOMERUN TO PANEL, 2#12 + 1 #12 G. U.O.N. NUMBER OF ARROWHEADS INDICATES NUMBER OF CIRCUITS.
SHOWER FLUORESCENT RECESSED DOWNLIGHT	П	CONDUIT - DOWN
SAME AS TYPE "E" EQUIPPED WITH EMERGENCY BATTERY BACK-UP BALLAST FOR 2 LAMPS	E S	CONDUIT - CONCEALED IN FLOOR, CEILING SPACE BELOW OR BELOW SLAB
FLUORESCENT STRIP FIXTURE W/WIREGUARD	П	CONDUIT - CONCEALED IN WALL OR ABOVE CEILING
FLUORESCENT DOWNLIGHT, 5" DIAMETER SEMI-SPECULAR FINISH, EQUIPPED WITH EMERGENCY BALLAST	DE F	MOTOR THERMAL OVERLOAD PROTECTION AND MANUAL STARTER SWITCH 120/208V BRANCH CIRCUIT PANELBOARD - SEE PANEL SCHEDULE
SURFACE MOUNTED FLUORESCENT FIXTURE, ACRYLIC DIFFUSER, WHITE FINISH		SPRINKLER SYSTEM TAMPER SWITCH
SAME AS TYPE "C" EQUIPPED WITH EMERGENCY BATTERY BACK-UP BALLAST FOR 2 LAMPS.	CE S	SPRINKLER SYSTEM FLOW SWITCH
FLUORES CENT PENDANT DIRECT/IN DIRECT FIXTURE W/3-32W T8 LAMPS	о 	ADDRESSABLE SMOKE DETECTOR
1'x4' FLUOR. TROFFER W/2-28W T5 LAMPS WITH EMERGENCY BATTERY BACK-UP BALLAST	BE 1:	FIRE ALARM ADA COMPLIANT VISUAL DEVICE - WALL MOUNTED @ 80" AFF.
SAME AS TYPE "A1" EQUIPPED WITH EMERGENCY BATTERY BACK-UP BALLAST	A1E S	FIRE ALARM PULL STATION - WALL MTD. @ 48" AFF. FIRE ALARM AUDIBLE AND ADA COMPLIANT VISUAL
2'x4' FLUORESCENT TROFFER W/3-28W T5 LAMPS, W/#12 LENS	A1 2	JUNCTION BOX - CEILING MOUNTED
SAME AS TYPE "A" EQUIPPED WITH EMERGENCY BATTERY PACK FOR 2 LAMPS	AE S	MOTOR CONNECTION
2'x4' FLUORESCENT TROFFER W/2-28W T5 LAMPS, W/#12 LENS	A 2	U.O.N DISCONNECT SWITCH, 30A/3P/NFSS U.O.N.
DESCRIPTION	KEY	COMBINATION MOTOR STARTER/DISCONNECT SWITCH WITH NEMA SIZE 1 STARTER AND 3P, 30A NONFUSIBLE DISCONNECT SWITCH,
	-	

120

13WTPL

2

RECESSED

120

42W TRT

_

RECESSED

LITHONIA / GOTHAM

AFV 42TRT 8AR PCL EM

120

32W T8

2

PENDANT

LITHONIA

C 232 120 GEB EM WG

120

32W T8

2

PENDANT

LITHONIA

C 232 120 GEB WG

AFV 13DTT 4AR 120 EL

120 EM

120

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32WT8 26WT QUAD TUBE

13W TRT

120

28W T5

2

LITHONIA

2SP5G 228T5 A12 120 GEB95 EL14

120

28W T5

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LITHONIA

2SP5 G 3 28T5 A12 MVOLT GEB95 EL14

NOTES:	
<u>-</u>	
ALL EXIT SIGNS AND ALL LUMINAIRE BATTERY PACKS SHALL BE CIRCUITED AHEAD OF ANY SWIT	

BATTERY PACK

120

LED

LITHONIA

SIGNATURE SERIES LE SW R 120/277 EL N

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120

17W T8

SURFACE

LITHONIA

N2S 17 120 SWR

BEGA

NOTE 5

P6952 16TG

LED

20' H STEEL POLE

BETA

BLD ARE 3B 068 LED B PS5R20C/1/B2

NOTE 4

BLD ARE T3 068 LED B PS5R20C/1/B2

120

E

4 LIGHT BARS

120

18W TRT

RECESSED

LITHONIA / GOTHAM

AF 218TRT 6AR 120

120

32W T8

2

FOCAL POINT

FW1 PL 2T8 1C 120 S RC WH

70W T6G12 MH

- EMERGENCY BALLASTS SERVING LINEAR T8, T5 OR LONG COMPACT FLUORESCENT (AE, A1E, BE, CE & EE FIXTURES) L*f* FOR 3,000 LUMEN OUTPUT. BODINE, CAT. #B30 OR EQUAL. PS SHALL BE CONNECTED TO 2 LAMPS IN EACH FIXTURE AND SHALL BE RATED
- EMERGENCY BALLASTS SERVING COMPACT FLUORESCENT DOWNLIGHTS SHALL BE RATED MINIMUM OF 700 LUMENS OUTPUT. BODINE #B94C OR EQUAL. EACH EMERGENCY FIXTURE SHALL BE FURNISHED WITH TEST INDICATOR SWITCH. MOUNT SWITCH NEXT TO FIXTURE IN AREAS WITH SUSPENDED CEILING AND ON THE NEAREST WALLS IN EXPOSED (OPEN) AREAS.

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- COORDINATE FINISH FOR ALL EXTERIOR FIXTURES WITH THE ARCHITECT PRIOR TO ORDERING. REFER TO ARCHITECTURAL ELEVATIONS FOR FINAL LOCATIONS OF TYPE "J" AND "O" FIXTURES.

DRAWING LIST

1	
E001	
F002	ELECTRICAL SITE PLAN
1	
F101	ELECTRICAL LIGHTING PLAN
E102	ELECTRICAL POWER PLAN
E401	POWER RISER DIAGRAM
E501	FIRE ALARM AND TEL./COMM. RISER DIAGRAM
E601	ELECTRICAL PANEL SCHEDULES

GENER AL **NOTES**

Samahaha Associates p.c.

- MATERIALS AND EQUIPMENT SHALL BE NEW EXCEPT WHERE INDICATED OTHERWISE ALL OTHER WIRING DEVICES, CONDUIT, WIRE, ETC. SHALL BE NEW UNLESS NOTED OTHERWISE. ALL WORK, MATERIAL AND EQUIPMENT SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE 2005 AND SHALL COMPLY WITH ALL LOCAL CODES AND ORDINANCES.
- ALL MATERIALS AND EQUIPMENT SHALL BEAR U.L. LISTING.

120

120

28W T5

2

2SP5 G 2 28T5 A12 MVOLT GEB95 EL14

120

28W T5

LIGHTING

FIXTURE

SCHEDUI

Щ

OUNTING

LITHONIA

2SP5 G 2 28T5 A12 MVOLT GEB95

CATALOG#

- WORK NOT SPEC MAINTAIN GROUNDING CONTINUITY TO ALL DEVICES AND EQUIPMENT IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- ALL WIRE AND CABLE SHALL BE COPPER HAVING 600 VOLTS THW, THHN OR THWN NSULATIONS. PROVIDE #12 WIRE MINIMUM UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE THE CONDITION OF THE PREMISES AND THE CHARACTER AND EXTENT OF WORK REQUIRED PRIOR TO SUBMISSION OF BIDS.

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Klingemann

- UARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER CCEPTANCE BY OWNER. WNER IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ANY REQUIRED BUI
- IT IS THE INTENT OF THESE DRAWINGS AND OTHER RELATED DOCUMENTS TO PRODUCE A COMPLETE AND FUNCTIONING ELECTRICAL SYSTEM. PROVIDE ALL LABOR, MATERIAL AND OTHER SERVICES NECESSARY TO ACHIEVE THIS PRODUCT. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN THE PLANS AND SPECIFICATIONS THAT WILL AFFECT THE WORK, PRIOR TO SUBMISSION OF THE BID PRICE. ILL WORK SHALL BE DONE AT SUCH TIMES AND IN SUCH A MANNER THAT WILL LEAST NTERFERE WITH THE MAINTENANCE AND OPERATION OF ALL RELATED OR AFFECTED SYSTEMS. COORDINATE ALL POWER OUTAGES WITH THE OWNER.
- NOTE 4,5 IF, DURING THE COURSE OF THE WORK, THE CONTRACTOR EXPERIENCES A PROBLEM RELATIVE TO THE PLANS AND SPECIFICATIONS, THE NATIONAL ELECTRICAL CODE OR OTHER APPLICABLE CODES AND GOVERNING DOCUMENTS, HE SHALL NOTIFY THE ARCHITECT AND /OR THE ENGINEER FOR DIRECTION PRIOR TO EXECUTION OF THIS WORK. ANY WORK INSTALLED IN VIOLATION ON THE CONTRACT DOCUMENT OR APPLICABLE CODES WHICH COULD HAVE BEEN AVOIDED BY CONTACTING THE ARCHITECT OR ENGINEER SHALL BE RECTIFIED AT NO ADDITIONAL COST.

ADDENDUM #1

5.12.2010

REVISION

DATE

- ECTRICAL PLANS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF YSTEMS AND WORK. CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE ONDITIONS, DOOR SWINGS, ROOM FINISHES, ETC. MAINTAIN HEADROOM AND ORKING CLEARANCES.
- VERIFY THE TYPE OF CEILING SYSTEM WITH THE GENERAL CONTRACTOR TO ENSITHAT ALL RECESSED LIGHTING FIXTURES ARE COMPATIBLE WITH THE CEILING SYSTEM BEING INSTALLED. LIGHTING FIXTURES SHOULD NOT BE ORDERED UNTIL CEILING TYPE HAS BEEN VERIFIED. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHT FIXTURES.

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Loudoun

Shelter

- 17. JPPORT CEILING MOUNTED LIGHTING FIXTURES DIRECTLY FROM THE BUILDING IRUCTURE. DO NOT SUPPORT FIXTURES FROM PIPING, DUCTWORK OR ANY OTHER QUIPMENT INSTALLED IN THE CEILING PLENUM. RCUIT NUMBERS ARE FOR IDENTIFICATION PURPOSES ONLY. THE CONTRACTOR IS SPONSIBLE FOR CORRECTLY PHASING THE CIRCUITS IN THE PANEL AND SHALL LANCE THE LOAD ON THE PHASES UNDER NORMAL OPERATING CONDITIONS. OVIDE TYPEWRITTEN PANELBOARD DIRECTORIES.
- 19 INCREASE ALL BRANCH CIRCUIT CONDUCTORS TO THE NEXT LARGER SIZE FROM THE PANEL TO THE FIRST OUTLET WHERE THE LENGTH OF THE HOMERUN EXCEEDS 100FT ON 120/208V CIRCUITS. HE NUMBER OF WIRES IS INDICATED ONLY WHERE CLARIFICATION IS NECESSARY. HE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL WIRES NECESSARY FOR THE ROPER FUNCTION OF THE SYSTEM.
- SUBMIT SHOP DRAWINGS FOR ALL ELECTRICAL EQUIPMENT, FIXTURES, DEVICES AND MATERIALS TO THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO ORDERING ITAPE/CORD IN ALL EMPTY CON UIT RUNS
- 23 ONTRACTOR SHALL NOTE U.L. LABELS ON PACKAGED TYPE MECHANICAL QUIPMENT. IF U.L. LABEL ON MECHANICAL EQUIPMENT CALLS FOR THE VERCURRENT PROTECTIVE DEVICE TO BE FUSES, PROVIDE A FUSED SWITCH WITH ROPER SIZE FUSES AT THE SWITCH LOCATION INDICATED ON DRAWINGS.
- VERIFY WIRE SIZES, C/B AND FUSES RATINGS FOR ALL EQUIPMENT, AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES AFFECTING THE WORK PRIOR TO PROCEEDING.
- IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE SERVICE REQUIREMENTS FOR POWER AND TELEPHONE UTILITIES. ALL ELECTRICAL DEVICES MOUNTED ON OR AROUND THE EXTERIOR OF THE BUILDING SHALL BE WEATHERPROOF. EXTERIOR MOUNTED RECEPTACLES SHALL BE GFITYPE.
- ELECTRICAL CONTRACTOR SHALL INSTALL ALL ROUGH-INS FOR ACCESS SECURITY SYSTEM DEVICES, I.E. CONDUITS, OUTLET BOXES, ETC. REFER TO ACCESS SECURITY SYSTEM DRAWINGS FOR QUANTITIES AND LOCATIONS OF ALL SECURITY SYSTEM DEVICES. COORDINATE ENTIRE SCOPE OF WORK WITH SECURITY SYSTEM CONTRACTOR PRIOR TO ROUGH-INS.
- FURNISH AND INSTALL LIGHTNING PROTECTION SYSTEM IN BUILDING 1 & 2 IN ACCORDANCE WITH SPEC. SECTION 13100.

 THE SPACE AROUND PENETRATING ITEMS AND IN JOINTS IN SMOKE BARRIERS AND PARTITIONS SHALL BE FILLED WITH AN APPROVED MATERIAL TO LIMIT THE FREE PASSAGE OF SMOKE. SEE DRAWING A-1 FOR THE LOCATION OF SMOKE BARRIERS AND PARTITIONS.

FIRESTOP ALL PENETRATIONS THROUGH FIRE RATED PARTITIONS AND CEILINGS. DRAWING A-1 FOR THE LOCATION OF RATED PARTITIONS AND CEILINGS. \triangleright

A, AMP
AC
AFF
AWG
BKR
BLDG
C, CND
CB
CKT
CLG
DISC
DN
DWG
ECC
EMER

KVA
KW
LTG
MAX
MCB
MECH
MIN
MIN
MIN
MTD
MTG
NEC

TRANSFROMER (INDICATES KVA) TELEPHONE

ROOM
SMOKE DETECTOR
SINGLE POLE
SPECIFICATION
SWITCH

RRM SD SP SPEC SPEC SW T30 T2P UNF UNF UNF WW

NEMA

VOLT OR VOLTAGE VOLT AMPERE WATT, WIRE WEATHERPROOF WITH

NATIONAL ELECTRICAL
MANUFACTURERS
ASSOCIATION
NOT TO SCALE
ON CENTER
POLE
PANEL
RECEPTACLE
REQUIRED

ABBREVIATIONS

Renovations Additions &

ELECTRICAL COVER SHEET

E001